

Fig. 1

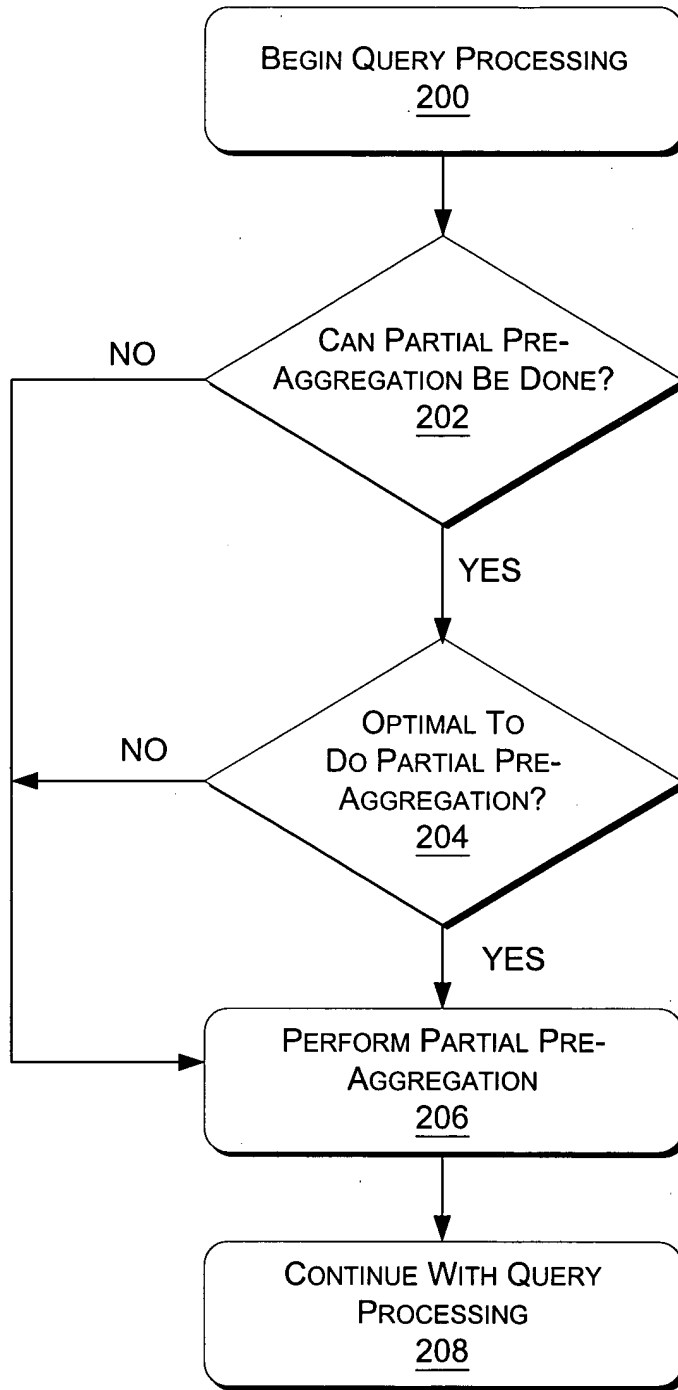


Fig. 2

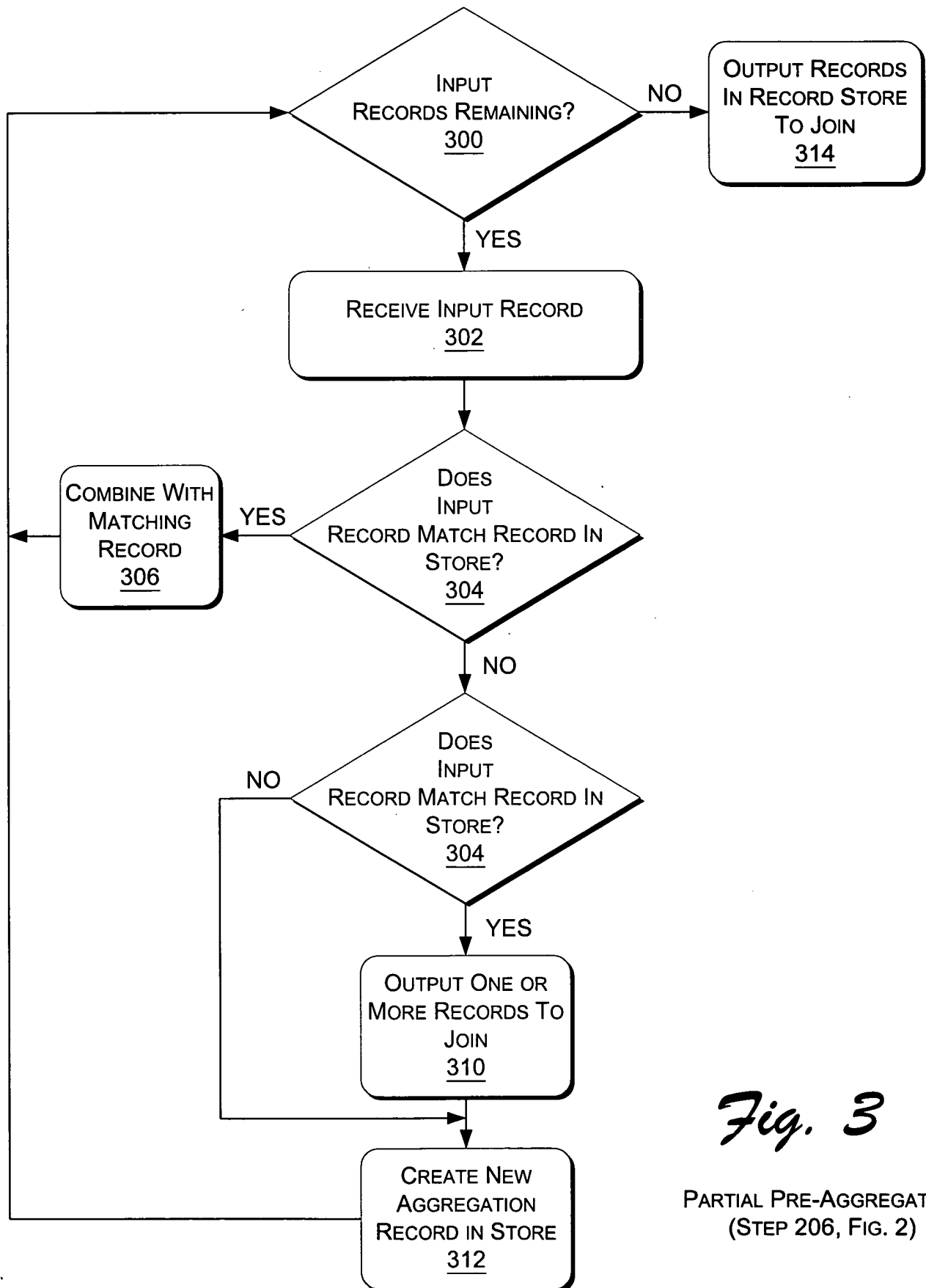


Fig. 3

PARTIAL PRE-AGGREGATION
(STEP 206, FIG. 2)

	Customer Number	Invoice Date	Due Date	Invoice Amount	
Record 1	9810			\$100	402
Record 2	9815			\$200	404
Record 3	9810			\$300	406
Record 4	9821			\$400	408
Record 5	9810			\$500	410
Record 6	9821			\$600	412
	414	416	418	420	

Sales Table
(Customer Invoices)

Fig. 4

	Customer Number	Customer Name	Customer Contact	Contact Phone	
Record 1	9810		Adams	123-4567	502
Record 2	9815		Bethard	345-6789	504
Record 3	9819		Gill	987-6543	506
Record 4	9821		Danner	765-4321	508
	510	512	514	516	

Customer Table
(Customer Contacts/Country)

Fig. 5

	Customer Number	Total Invoice Amount
Record 1	9810	\$400
Record 2	9815	\$200

Fig. 6a

Partial Pre-Aggregation Results

	Customer Number	Customer Contact	Contact Phone	Total Sales
Record 1	9810	Adams	123-4567	\$400
Record 2	9815	Bethard	345-6789	\$200
Record 3	9821	Danner	987-6543	\$1000
Record 4	9810	Adams	123-4567	\$500

Join Results

Fig. 7

	Customer Number	Customer Contact	Contact Phone	Total Sales
Record 1	9810	Adams	123-4567	\$900
Record 2	9815	Bethard	345-6789	\$200
Record 3	9821	Danner	987-6543	\$1000

Aggregation Results

Fig. 8

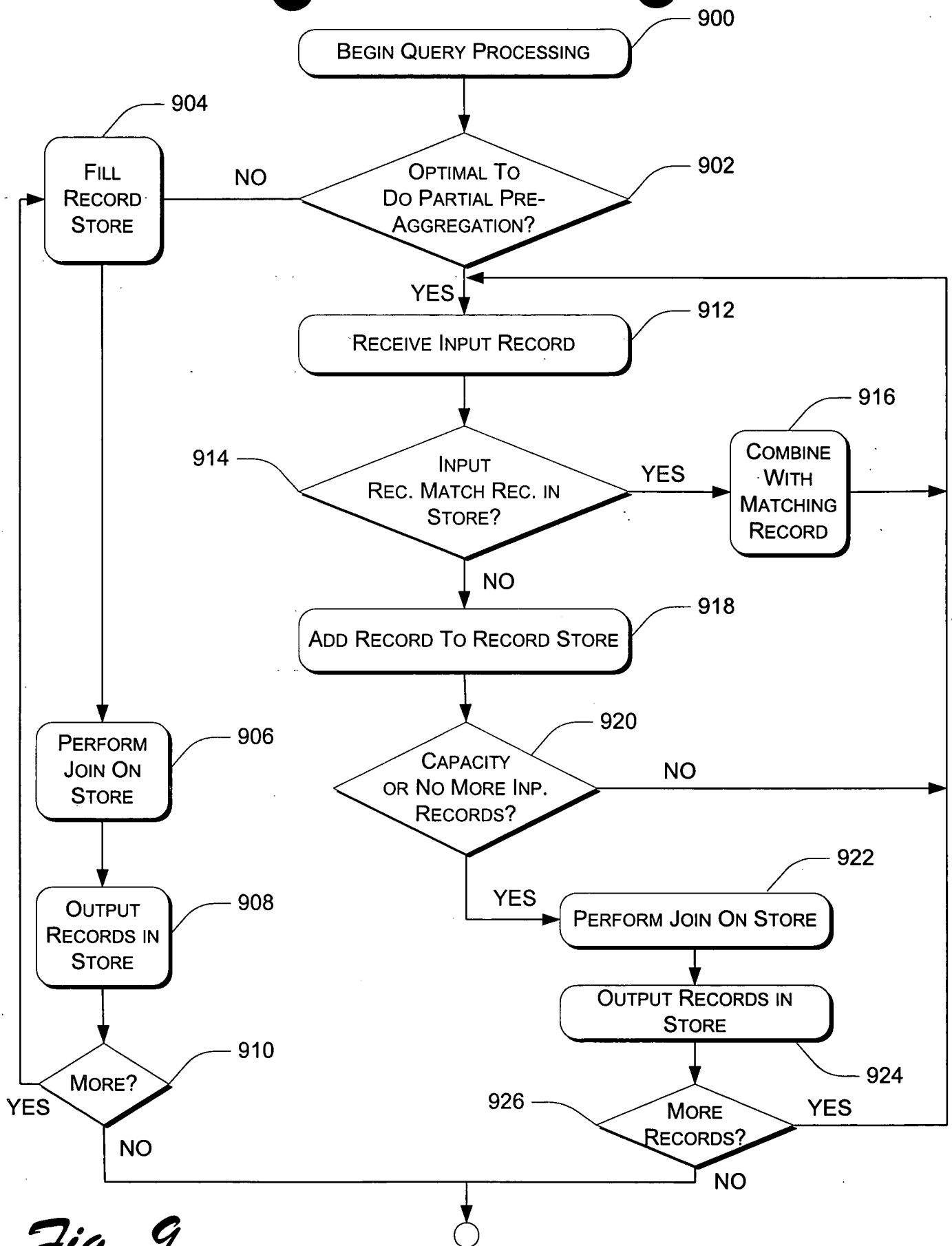


Fig. 9

